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Nematron nPC300 Fanless Industrial PC

Non-Display, High Performance Fanless Node PCs

UL/cUL Class I Div 2 Approved

Intel® Fanless Processing

Solid State Drive Storage

55°C Operating Temp

64-bit Application Support

Mounting Options





DS nPC300-N2800, Rev B











Standard Configuration

- High Performance / Very Low Power Fanless Processor
 - Intel® Dual Core ATOM N2800 (1.86 GHz, 1 MB cache, 4 Threads)
- 4 GB DRAM
- 240 GB Easily Removable SATA Solid State Drive
 - Optional larger SSD sizes and rotating Hybrid Hard Drive
- Extensive I/O Connectivity
 - Dual Gigabit (10/100/1000) Ethernet ports
 - Two USB 2.0 ports
 - Two USB 3.0 ports
 - One RS-485/422 serial port

- Two RS-232 serial ports
- Additional Analog Video port or HDMI port - supports dual video with internal LCD and one port (Optional HDMI to DVI cable available - sold separately)
- Integrated 100-240 VAC power supply
 - 24 VDC optional
- UL and cUL Ordinary Locations Listed
- UL and cUL Hazardous Locations Listed
 - Class I Division 2, Groups A, B, C, & D; Class II Division 2,

- Groups F & G; Class III when mounted in a NEMA enclosure
- FCC & European CE compliant
- Windows® 7 Professional (32-bit) pre-installed
 - Windows 7 Ultimate (32-bit) or No OS installed optional
- 2-year Warranty



Technical Specifications



Physical

Overall Dimensions

7.750" x 12.00" x 2.15" (196.8mm x 304.8mm x 54.61mm)

Overall Dimensions w/

7.750" x 13.30" x 2.45" (196.8mm x 337.82mm x 62.23mm)

Mounting Brackets
Weight

6.5 lbs (2.9 kg)

Shipping Weight

8.0 lbs (3.6 kg)

Processor

ATOM N2800

Intel Dual Core ATOM N2800

Core Speed

1.86 GHz

Threads / Bus/Core

Type & Processor

2/4

L2 Cache

1MB

Chipset

Intel NM10 Express

Graphics Controller

Integrated Intel GMA 3650 1

Ethernet Controller

Intel 82574L Gigabit 10/100/1000 (2 ports)

Storage & Peripherals

Operating System Windows 7 Professional (32-bit); Optional Windows 7 Ultimate (32-bit), or No OS installed

DRAM

4GB Single Module (204-pin DDR3 SO-DIMM, non-ECC, unbuffered, 1066 MHz)

Standard Storage

240GB SATA Solid State Drive; Optional 480GB or 960GB Solid State Drive; 1TB SATA Hybrid Hard Drive 2

Available I/O

(1) HDMI Port, (2) USB 2.0, (2) USB 3.0, (2) RS-232, (1) RS-485/422, (1) Analog Video Port (supports dual video),

(2) Ethernet 10/100/1000 Ports

² Hybrid Hard Drives have a solid state adaptive memory cache to significantly increase read/write performance. These are rotating hard drives and do not carry any extra part warranty.

¹ Additional Video RAM as needed with DVMT (Dynamic Video Memory Technology).

Power

Input Power 35

AC Input Voltage

100-240 VAC, 50-60 Hz, 1.0 A Maximum

DC Input Voltage 18-36 VDC, 6.0 A Maximum

Technical Specifications

Environmental

Operating Temperature 3 0°C to 55°C Humidity 20% to 80% RH, noncondensing

Shock 4 15g peak acceleration, 11msec Vibration (5-2000 Hz) 4

.006" peak to peak displacement, 1.0g maximum acceleration

Altitude 5 Sea level to 10,000 feet Non-operating -20°C to 70°C

20% to 80% RH, noncondensing

30g peak acceleration, 11msec

.015" peak to peak displacement,

2.5g maximum acceleration

Sea level to 40,000 feet

³ Temperature specifications are for air temp surrounding the unit (i.e. inside any enclosure being utilized). Meets US Federal Requirements specified in 46 CFR 111.01-15 (d) for offshore electrical systems.

⁴ Shock & Vibration specifications established with Solid State drives and no rotating media.

⁵ Altitude specification is established by using all internal component specifications

Compliance

FCC 47 CFR, Part 15, Class A

EU CE Marking CE, EN 55022: Class A, EN 61000-3-3, EN 61000-6-2, IEC 60950-1

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UL508 Listed, ANSI/ISA 12.12.01-2012, cUL Listed CSA C22.2, #142, cUL Listed CSA 22.2, #213 Agency Approvals *

> * nPC-Fanless Series: Class I Division 2, Groups A, B, C, D; Class II, Division 2, Groups F & G; Class III; Temp. Code: T4A, when installed on a flat surface of a Type 1, 4, 4X, or 12 enclosure.

Features

- 1. Integral 100-240 VAC or 24 VDC Power Supply
- 2. UL/cUL 508, Class I Div 2, CE Approvals
- 3. Easily Removable SATA Solid State Drive
- 4. Extensive I/O Connectivity
- 5. USB Retention **Bracket**
- 6. Mounting Brackets
- 7. HDMI Cable Retention Bracket
- 8. Made with Pride in the USA







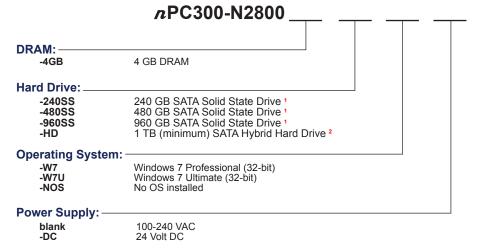




Order Number Generation

Base unit configuration: nPC300-N2800-4GB-240SS-W7, includes Intel Dual Core ATOM N2800, 4 GB DRAM, 240 GB SATA Solid State Drive and Windows 7 Professional (32-bit).





¹ Solid State Drive options carry a 5-year (part-only) warranty.



² Hybrid Hard Drives have a solid state adaptive memory cache to significantly increase read/write performance. These are rotating hard drives and do not carry any extra part warranty.